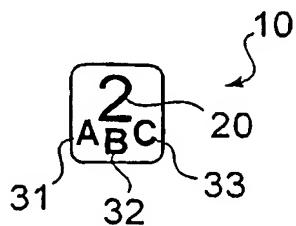
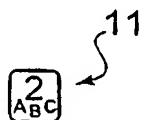


Micro Cellphone Keybutton Tops (or Keycaps)



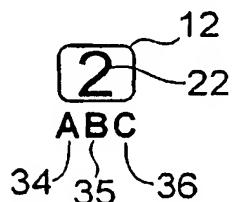
Alphabetic legend ON keycap (enlarged from actual size)

FIG. 1A



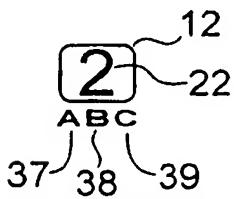
Actual size keycap

FIG. 1B



Number on keybutton top plus alphabetic legend on stretched material

FIG. 1C



When stretched material relaxed for storage, legend shrinks.
But, keybutton top stays same size.

FIG. 1D

**Micro Cellphone Keyboard Operation
(Shown Enlarged)**

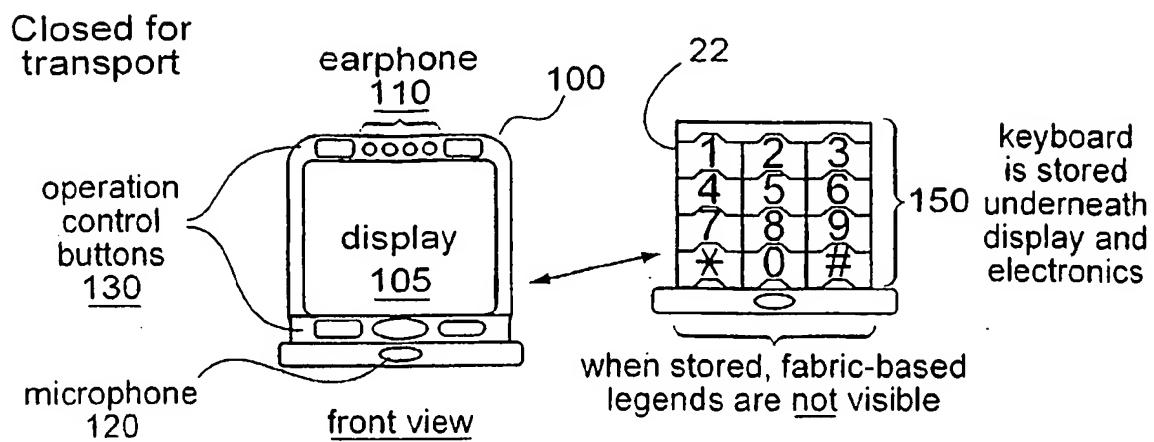


FIG. 2A

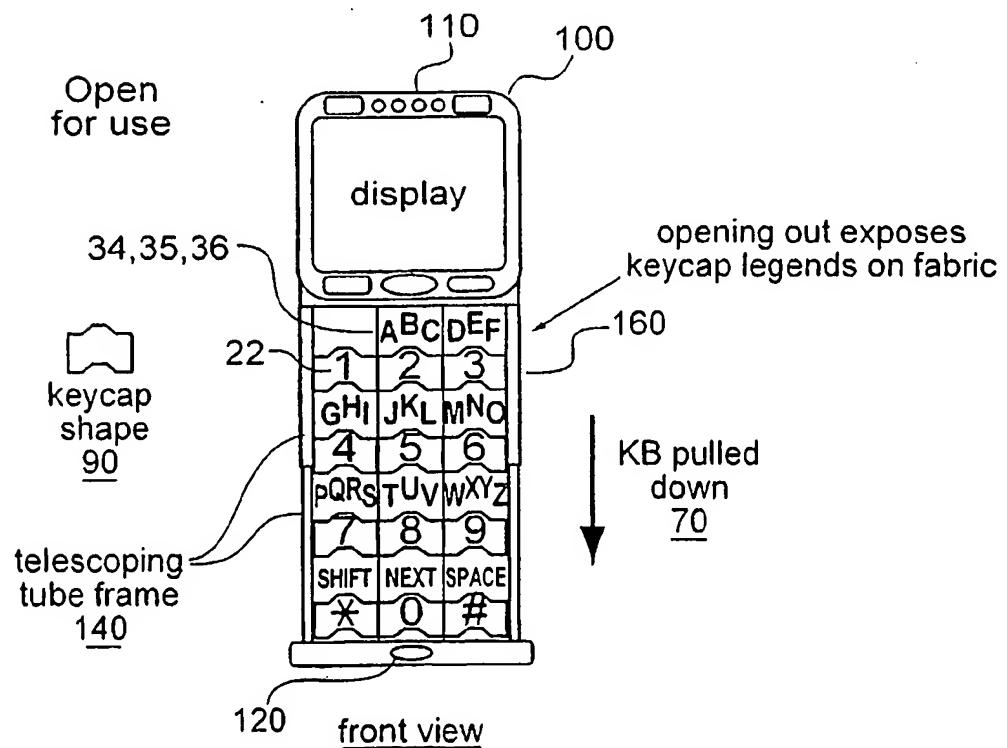
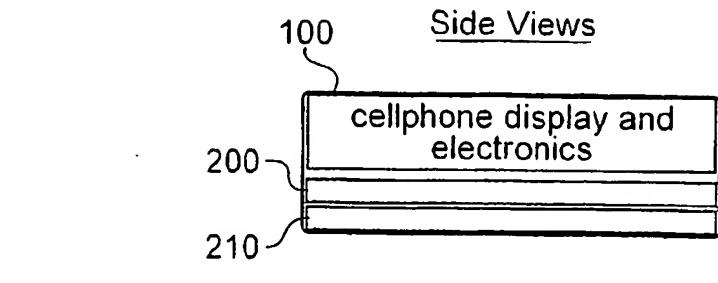


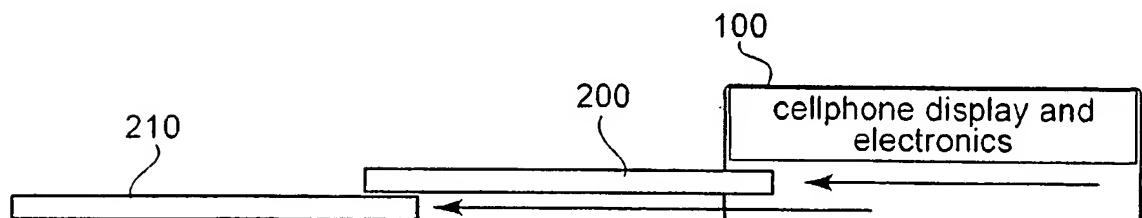
FIG. 2B

Two drawer Keyboard for micro cellphone



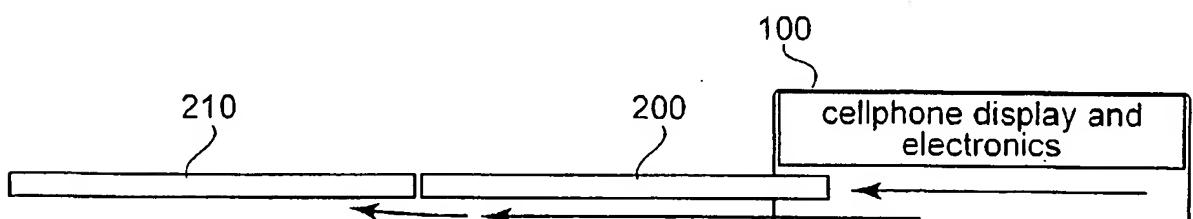
keyboard stored

FIG. 3A



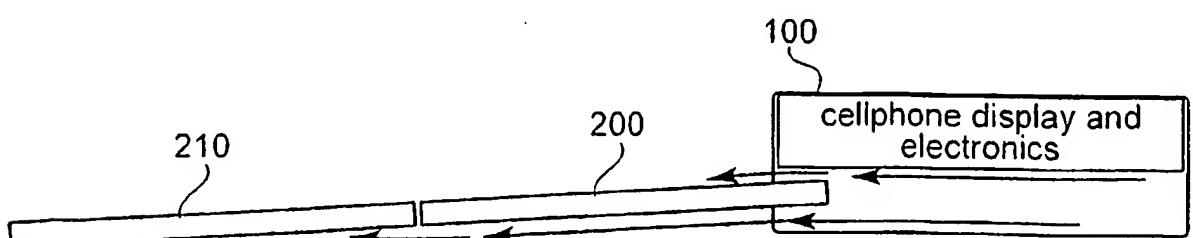
keyboard open (stairstep)

FIG. 3B



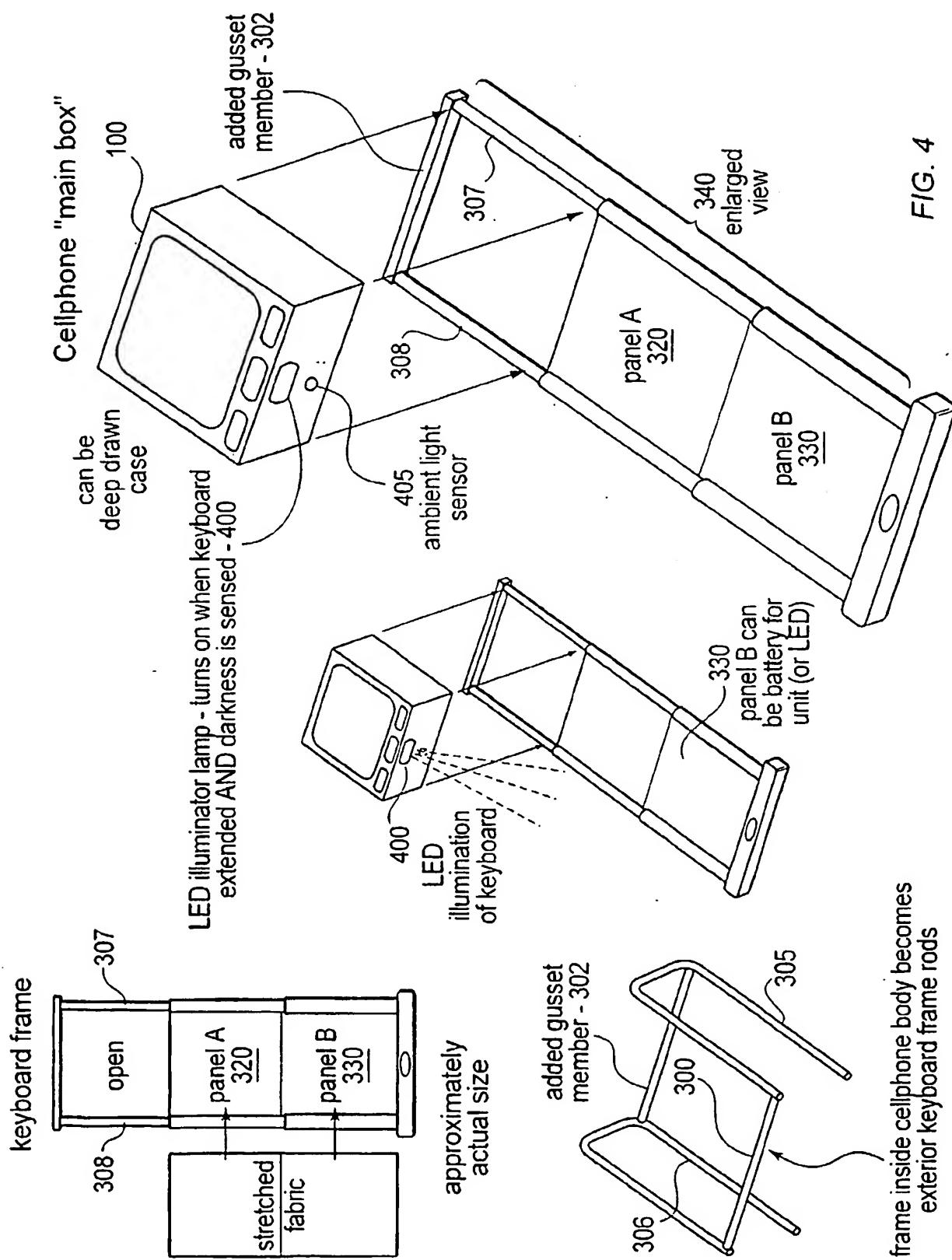
keyboard open (flat and level)

FIG. 3C



keyboard open (flat and angled)

FIG. 3D



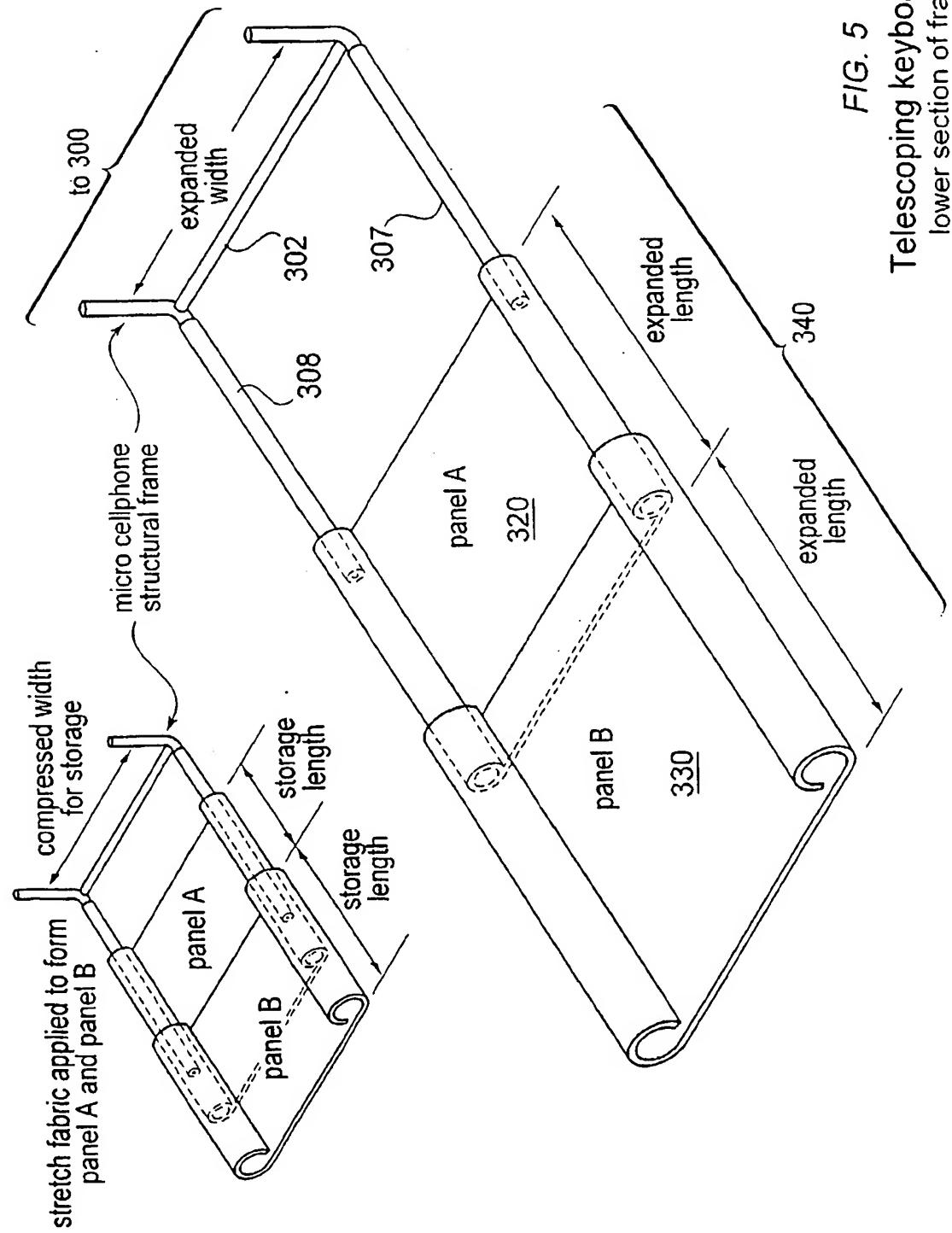
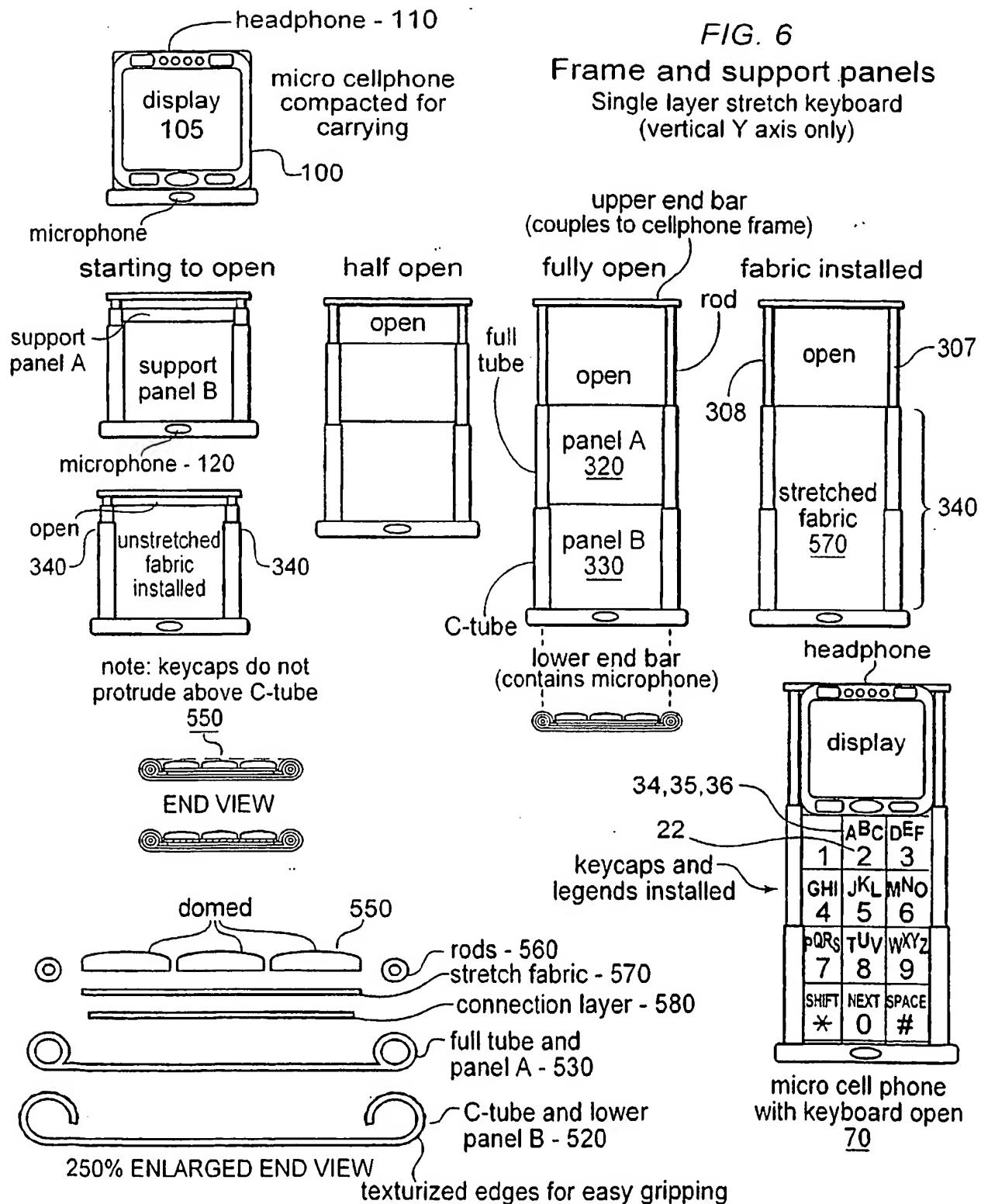


FIG. 5

Telescoping keyboard frame
lower section of frame unit



Stretch keyboard for cellphone
(greatly enlarged over actual size)

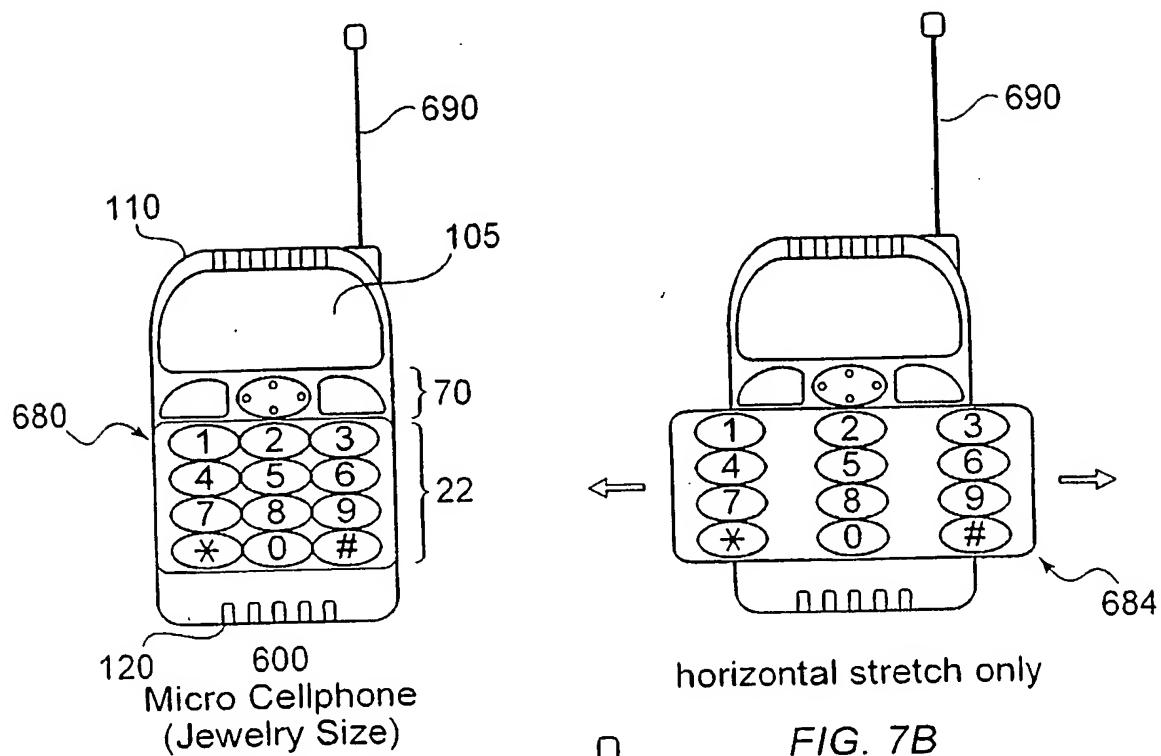


FIG. 7A

horizontal stretch only

FIG. 7B

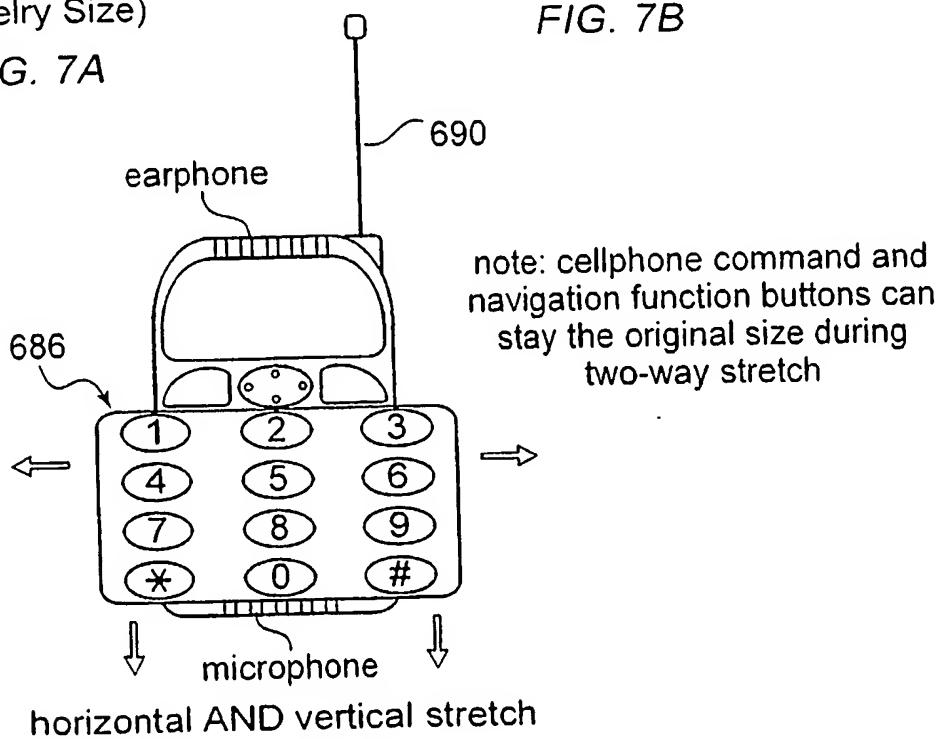
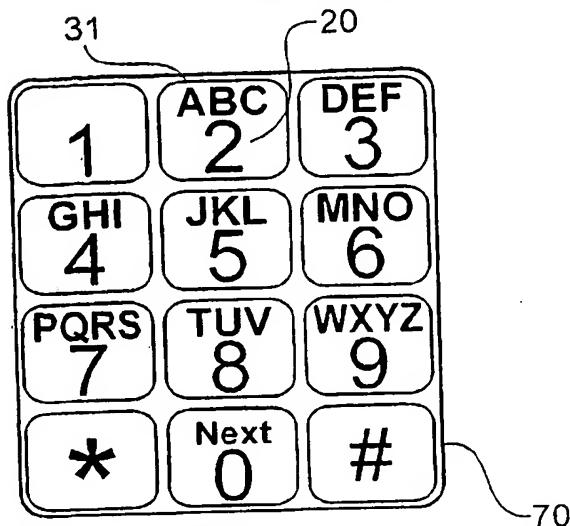


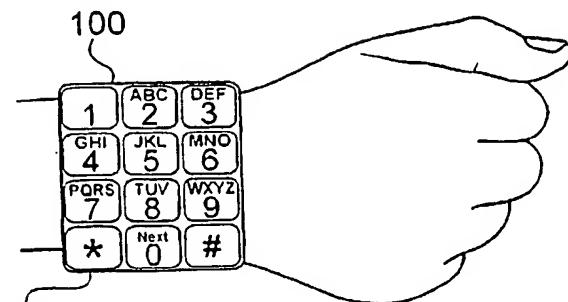
FIG. 7C

Letter assignments for numeric keys



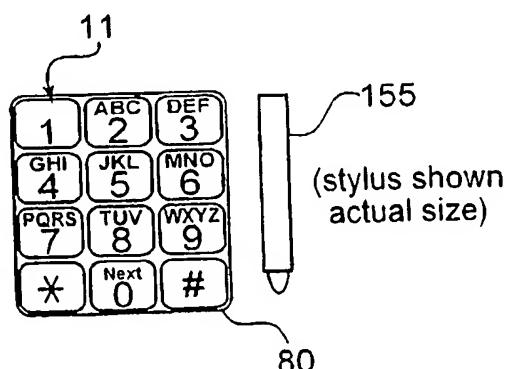
letter layout takes over available space above number, shown here twice actual size

FIG. 8A



Wrist worn miniature cellphone

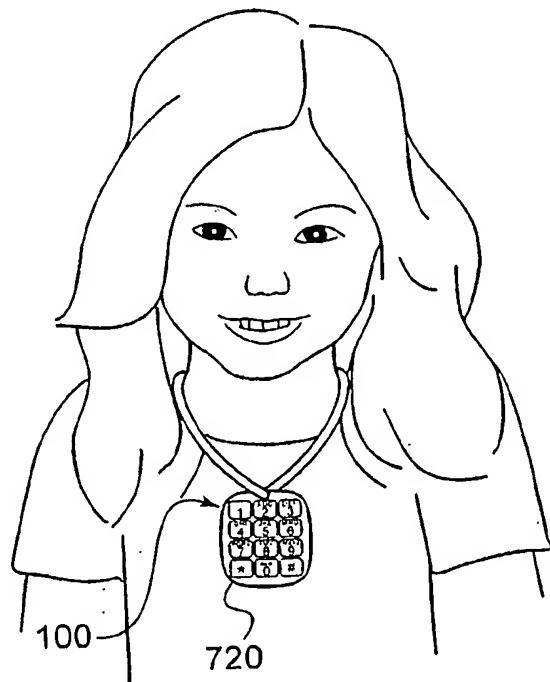
FIG. 8C



letter layout takes over entire display screen, shown here only slightly larger than actual size

FIG. 8B

letter layout takes over entire display screen, shown here twice actual size



Miniature cellphone worn as pendant

FIG. 8D

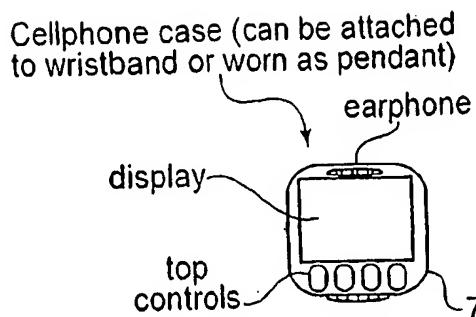


FIG. 9A
Miniature Cell Phone with keyboard stored

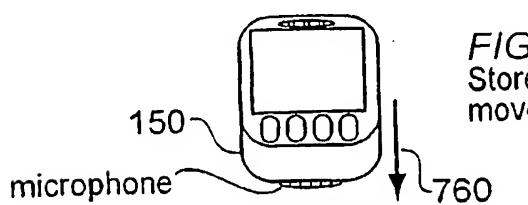


FIG. 9B
Stored keyboard moves downward

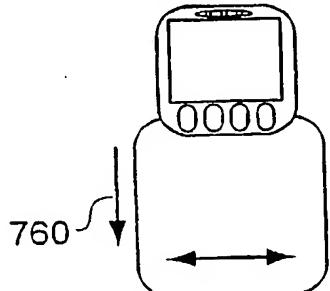


FIG. 9C
Stored keyboard continues to move downward and begins lateral expansion

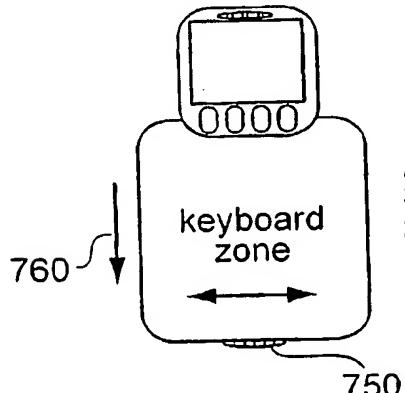


FIG. 9D
Stored keyboard completes its move downward and completes lateral expansion

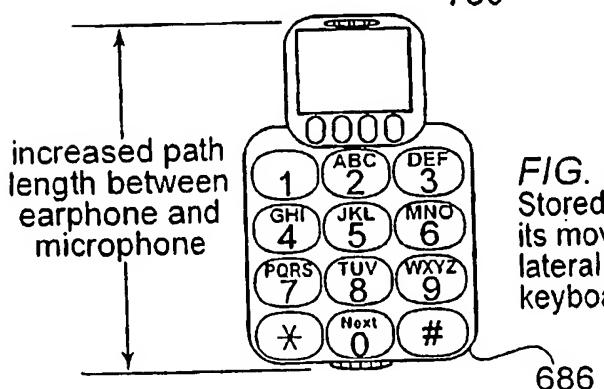


FIG. 9E
Stored keyboard has completed its move downward and completed lateral expansion, and the actual keyboard is shown

FIG. 9
Miniature Cell Phone keyboard deploys out from storage location - rectilinear expansion mode shown

Cellphone case (can be attached to wristband or worn as pendant)

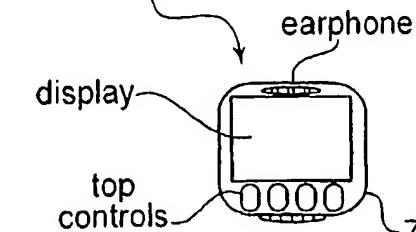


FIG. 10A
Miniature Cell Phone
with keyboard stored

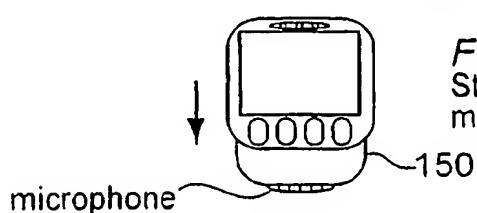


FIG. 10B
Stored keyboard
moves downward

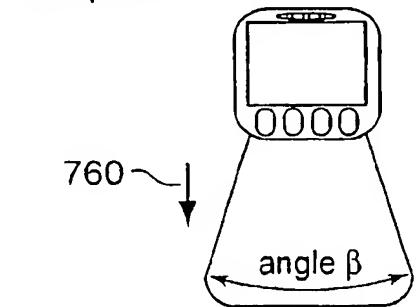


FIG. 10C
Stored keyboard
continues to move
downward and begins
angular expansion
(angle = β)

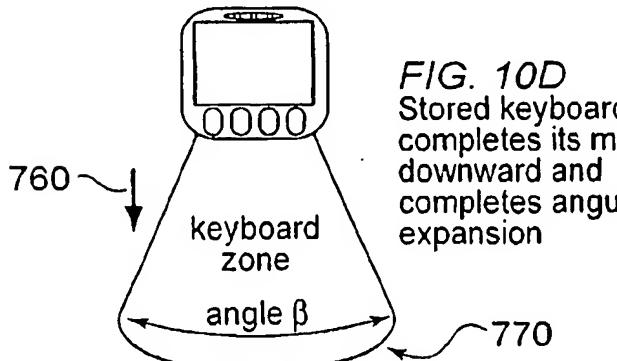


FIG. 10D
Stored keyboard
completes its move
downward and
completes angular
expansion

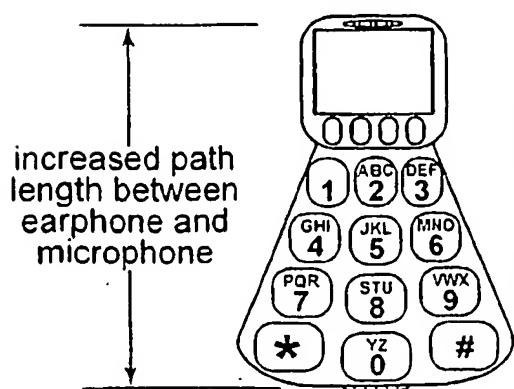


FIG. 10E
Stored keyboard has
completed its move
downward and
completed angular
expansion, and the
actual keyboard is shown

FIG. 10

Miniature Cell Phone
keyboard deploys out
from storage location -
linear and angular
expansion mode shown